

5K30/4K60 8x8 Seamless Scaling HDMI Matrix with USB-C Support MX-0808-SCL

WyreStorm® Quickstart Guide

💡 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.

4K HDR 2160p 4:4:4 60 HDMI HDCP 2.3

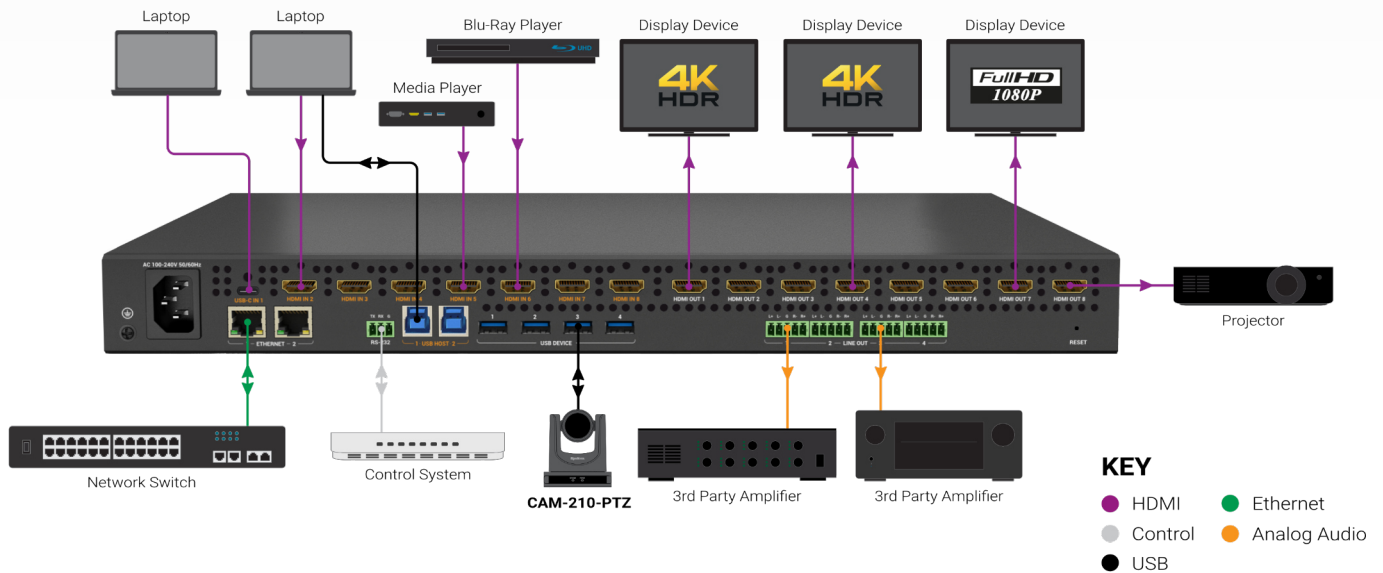
⚠️ IMPORTANT! Installation Requirements

- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing pre-made cables.
 - Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Install the latest firmware to ensure that all features described in this document are available during and after installation.

In the Box

- 1 x Matrix Switcher
- 1x AC Power Cord (US/UK/EU/AU)
- 1x 2m USB 3.1 Type-C Cable
- 1x 3.5mm 3-Pin Phoenix Male Connector
- 4x 3.5mm 5-Pin Phoenix Male Connector
- 2x 1U Rack Mounting Brackets with screws
- 1x Quick Start Guide

Basic Wiring Diagram



Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in its entirety before running or terminating any wires to ensure proper operation and to avoid damaging the equipment.

HDMI/HDBaseT Wiring

⚠ IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on HDMI transmission limiting performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using high quality HDMI cables such as WyreStorm Express to ensure the highest content performance available.

RS-232 Wiring

Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionally to ensure that the correct connections can be made.



WyreStorm Connector		3rd Party Device
Pin 1	TX (Transmit)	---> To ---> RX (Receive)
Pin 2	RX (Receive)	---> To ---> TX (Transmit)
Pin 3	G (Ground)	---> To ---> G (Ground)

Audio Wiring



WyreStorm Connector		3rd Party Device
Pin 1	Left Positive (L+)	---> To ---> Left Positive (L+)
Pin 2	Left Negative (L-)	---> To ---> Left Negative (L-)
Pin 3	Ground (G)	---> To ---> Ground (G)
Pin 4	Right Positive (R+)	---> To ---> Right Positive (R+)
Pin 5	Right Negative (R-)	---> To ---> Right Negative (R-)

Accessing the Web UI

This matrix uses an Auto IP method to generate the initial IP address based on the network connections. By default the IP address is set to DHCP and will pull the IP address from a connected DHCP server. Should the network not contain a DHCP server the IP address will be generated based on the units mac address.

The above operation will occur unless the IP Address setting in the web UI is set to static.

1. Connect the matrix to the same network as a PC
2. You can access the IP information by referencing the LCD screen on the front of the unit
3. Open a web browser and enter the IP Address of the matrix
4. Enter the password for the matrix. Default Password: admin

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to all devices in the system and that they are powered on.
- Verify that all sources are not loose and are functioning properly.
- Verify that the matrix, receiving device, and display support the output resolution of the source. Refer to **Video Resolutions** in the [Specifications](#) table for the max distance based on resolution.
- If transmitting 4K, verify that the HDMI cables used are 4K rated.

💡 Troubleshooting Tips:

WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.



Specifications

Audio and Video	
Inputs	1x USB-C Input 7x HDMI In: 19-pin type A 2x USB-B Host
Outputs	8x HDMI Out: 19-pin type A 4x USB-A Device Port 4x 5-Pin Audio Terminal Port
Video Encoding	Uncompressed
Encoding Data Rate	18Gbps
Audio Formats	2ch PCM Multichannel: LPCM and Up to DTS-X and Dolby Atmos
Video Resolutions (Max)	1920x1080p @60Hz 16bit 7m/23ft 3840x2160p @60Hz 10bit 4:2:2 HDR10/10+ 5m/16ft 3840x2160p @60Hz 12bit 4:2:0 Dolby Vision 5m/16ft 3840x2160p @50Hz 10bit 4:2:2 HLG 5m/16ft 4096x2160p @60Hz 8bit 4:4:4 5m/16ft 5120x2160@30Hz 8bit 4:4:4 5m/16ft 5120x1440@60Hz 8bit 4:4:4 5m/16ft
Supported Standards	DCI RGB HDR10 HDR10+ Dolby Vision HLG BT.2020
Maximum Pixel Clock	600MHz
Communication and Control	
HDMI	HDMI 2.0 HDCP 2.2/2.3 EDID CEC
RS-232	1x 3-pin Phoenix
LAN	1x 8-pin RJ-45 for API control (Telnet, TLS, HTTP/HTTPS for webUI)
Reset	Via API, WebUI or Pin-Hole reset button
Power	
Power Supply	AC Power Supply 100V-240V
Max Power Consumption	128W (AV 68W, USB-C charging 60W)
Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Dimensions and Weight	
Rack Units/Wall Box	1U
Height	43.5mm/1.71in
Width	440mm/17.32in
Depth	330mm/12.99in
Weight	4.5kg/9.92lbs
Regulatory	
Safety and Emission	CE FCC RoHS RCM EAC UKCA